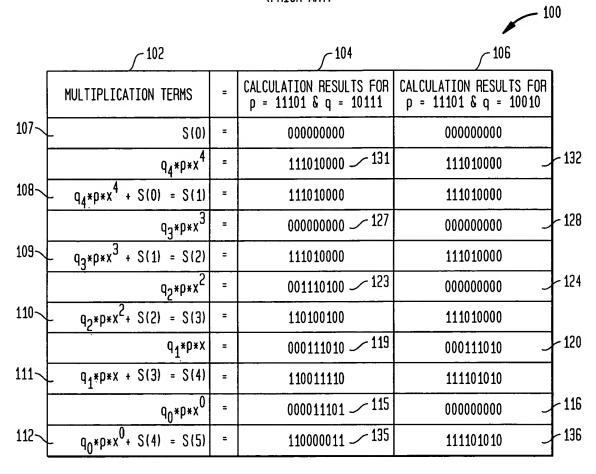
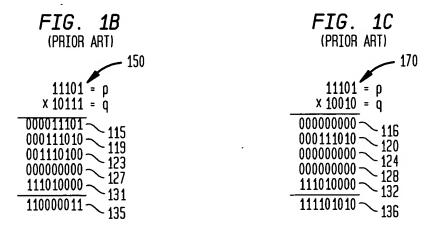


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FIG. 1A (PRIOR ART)



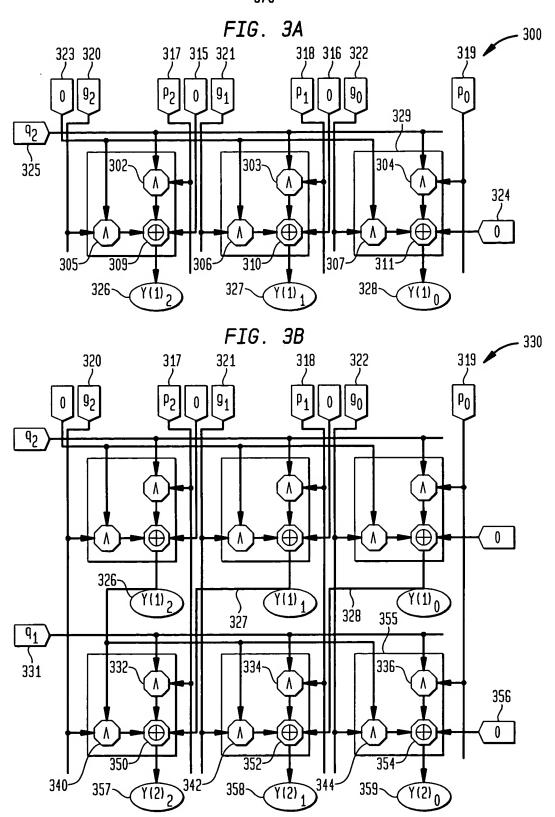


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FIG. 2 (PRIOR ART)

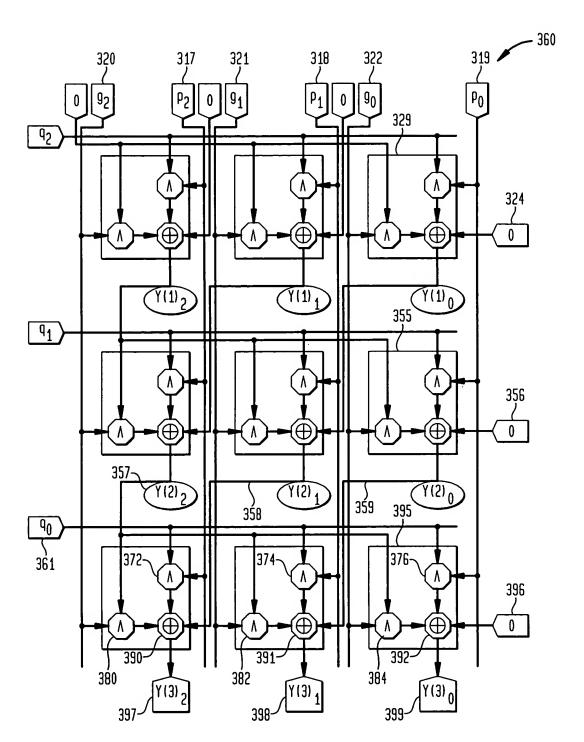
			(1112011 71117)	20	ı۸
		•		20	U
	£202		<u></u>	€206	
	REMAINDER TERMS	=	CALCULATION RESULTS FOR p = 11101, q = 10111 AND g = 10010	CALCULATION RESULTS FOR p = 11101, q = 10010 AND g = 10010	
208~	_ S(5) = S(M) = Z(1)	=	110000011 - 210	111101010 -	-212
	Z(1) <sub>8</sub> *9*x <sup>3</sup>	=	100101000	100101000	
214~	$-Z(1)_{8}*g*x^{3}+Z(1)=Z(2)$	=	010101011	011000010	
	Z(2) <sub>7</sub> *g*x <sup>2</sup>	=	010010100	010010100	
220~	_ Z(2) <sub>7</sub> *g*x <sup>2</sup> +Z(2)=Z(3)	. =	000111111	001010110	
	Z(3) <sub>6</sub> *g*x	=	00000000	001001010	
226~	$Z(3)_{6}*g*x+Z(3)=Z(4)$	=	000111111	000011100	
	Z(4) <sub>5</sub> *g*x <sup>0</sup>	=	000100101	00000000	
232~	- Z(4) <sub>5</sub> *g*x <sup>0</sup> +Z(4)=Z(5)	=	000011010	000011100	
	THE GF PRODUCT	=	$11010 \rightarrow x^4 + x^3 + x$	$11100 \rightarrow x^4 + x^3 + x^2$	-242
			240		

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SERIAL NO.: 10/799,316 PETER H. PRIEST (919-806-1600)

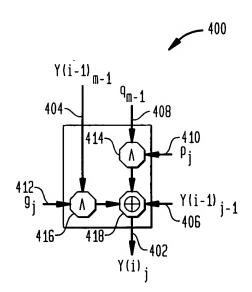
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SERIAL NO.: 10/799,316 PETER H. PRIEST (919-806-1600)

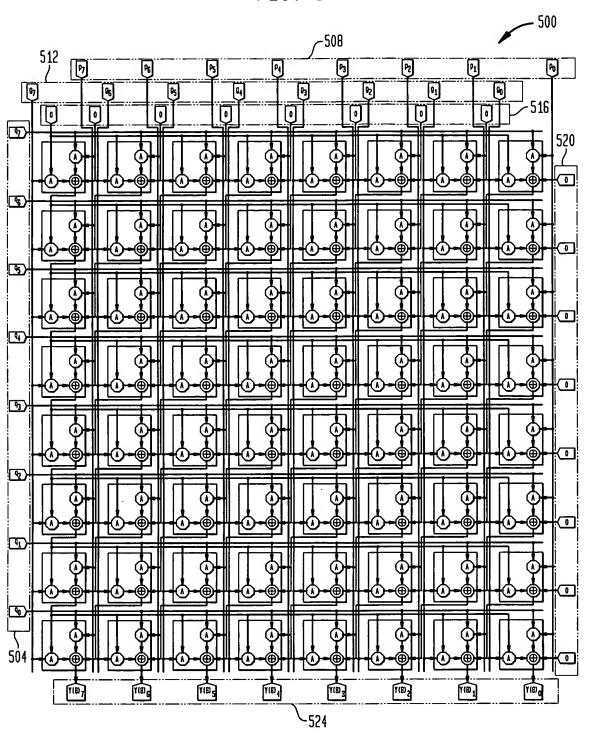
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FIG. 4

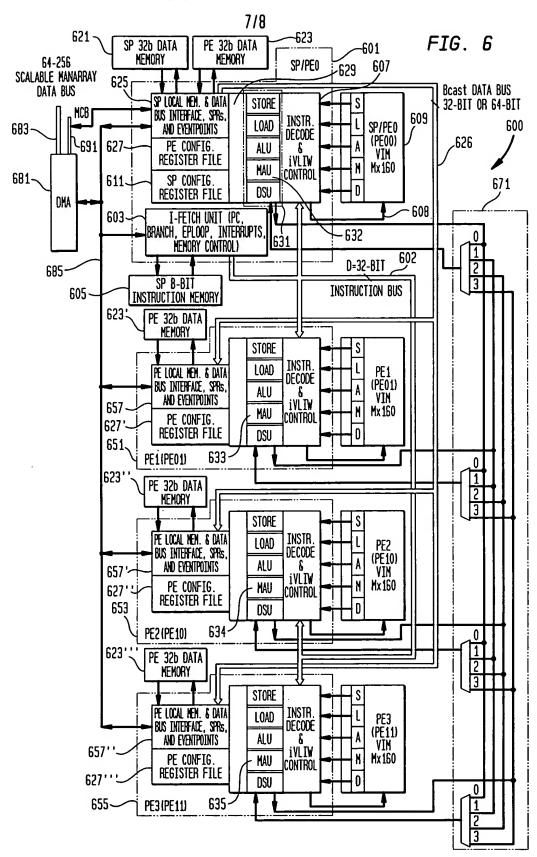


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FIG. 5



SERIAL NO.: 10/799,316 PETER H. PRIEST (919-806-1600)



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FIG. 7A

								<i>/</i>
31 30 29 28 27 26 25 24 23 22 2	1 20 19 18 1	7 16	15 14 13	12 11	10 9 8	76	5 4 3	210
Group S/P Unit MPYGF opcode	Rt		Rx		Ry	Ry		CE2 MPack
group sir our i ne lor opcode	Rte	0	Rxe	0	Rye	0	UCLE	TH OCK

FIG. 7B

	Syntax/Operation			<b>—</b> 750
	Instruction	Operands	Operation	ACF
			Quad	Bytes
752	MPYGF.[SP]M.4UB	Rt,Rx,Ry	Rt.B3 — rem(Rx.B3*Ry.B3/PSR.B0 Rt.B2 — rem(Rx.B2*Ry.B2/PSR.B0 Rt.B1 — rem(Rx.B1*Ry.B1/PSR.B0 Rt.B0 — rem(Rx.B0*Ry.B0/PSR.B0 — 755	NONE
	[TF].MPYGF.[SP]M.4UB	Rt,Rx,Ry	Do operation only if T/F condition is satisfied in FO	NONE
			Octal	Bytes
754	MPYGF.[SP]M.8UB	Rte,Rxe,Rye	Rte.B3 — rem(Rxe.B3*Rye.B3/PSR.B0 Rte.B2 — rem(Rxe.B2*Rye.B2/PSR.B0 Rte.B1 — rem(Rxe.B1*Rye.B1/PSR.B0 Rte.B0 — rem(Rxe.B0*Rye.B0/PSR.B0 Rto.B3 — rem(Rxo.B3*Ryo.B3/PSR.B0 Rto.B2 — rem(Rxo.B2*Ryo.B2/PSR.B0 Rto.B1 — rem(Rxo.B1*Ryo.B1/PSR.B0 Rto.B0 — rem(Rxo.B0*Ryo.B0/PSR.B0	NONE
	[TF].MPYGF.[SP]M.8UB	Rte.Rxe.Rye	Do operation only if T/F condition is satisfied in FO	NONE